

# Combined Declaration and Power of Attorney for Patent Application

Docket Number:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

## THIN FILM TRANSISTOR ARRAY PANEL FOR A LIQUID CRYSTAL DISPLAY AND METHODS FOR MANUFACTURING THE SAME

, the specification of which is attached hereto unless the following box is checked:

☒ was filed on October 2, 2000 ;

☒ as United States Application Number or PCT International Application Number 09/676,813 ;  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

☒ Yes

☐ No

99-42108  
(Application No.)

KOREA

(Country)

30/September/1999

(Day/Month/Year Filed)

99-62915  
(Application No.)

KOREA

(Country)

27/December/1999

(Day/Month/Year Filed)

2000-52182  
(Application No.)

KOREA

(Country)

04/September/2000

(Day/Month/Year Filed)

2000-52184  
(Application No.)

KOREA

(Country)

04/September/2000

(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application No.)\_\_\_\_\_  
(Filing Date)\_\_\_\_\_  
(Status - patented, pending, abandoned)\_\_\_\_\_  
(Application No.)\_\_\_\_\_  
(Filing Date)\_\_\_\_\_  
(Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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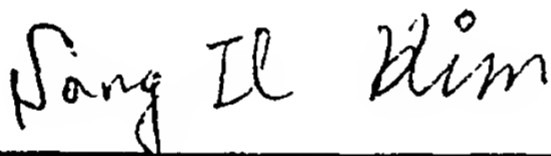
Direct Telephone Calls to: (202) 783-0800

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|                                     |  |
|-------------------------------------|--|
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|-------------------------------------|---|
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|-------------------------------------|---|
| Full name of sole or first inventor | Jin-Kyu KANG  |
| Inventor's signature                | Date: Jan. 2, 2001<br><i>Jin-Kyu Kang</i>                                 |
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| Post Office Address                 |  |
|                                     |  |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mun-Pyo HONG, et al.

Application No.: 09/676,813

Filed: October 2, 2000

For: **THIN FILM TRANSISTOR ARRAY  
PANEL FOR A LIQUID CRYSTAL  
DISPLAY AND METHODS FOR  
MANUFACTURING THE SAME**

Art Unit: 2673

Examiner: TBA

Atty. Docket: 6192.0159.AA

Assistant Commissioner for Patents  
Washington, D.C. 20231

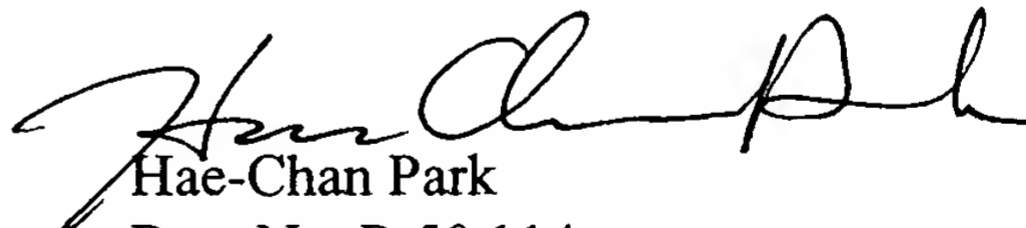
**COMBINED STATEMENT UNDER 37 C.F.R. § 3.73(b), POWER OF ATTORNEY BY  
ASSIGNEE, AND CHANGE OF CORRESPONDENCE ADDRESS**

Sir:

Attached hereto is a Request for Change of Power of Attorney by Assignee, and Change of Correspondence Address for the above identified application.

Please charge any deficiencies and credit any overpayment to our Deposit Account No. 23-1951.

Respectfully submitted,

  
Hae-Chan Park  
Reg. No. P-50,114

Date: March 22, 2002

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
Washington, D.C. 20231

## COMBINED STATEMENT UNDER 37 C.F.R. § 3.73(b), POWER OF ATTORNEY BY ASSIGNEE, AND CHANGE OF CORRESPONDENCE ADDRESS

Samsung Electronics Co., Ltd., a corporation, states that it is the assignee of the entire right, title, and interest in the following patent applications by virtue of assignments from their respective inventor(s). The assignments have been recorded in the United States Patent and Trademark Office at the Reel and Frame numbers indicated below.

| Docket No. | Serial Number | Date Filed | Patent Number           | Title  | Reel/Frame No. |
|------------|---------------|------------|-------------------------|--|----------------|
| 61920033AA | 09/122,076    | 07/24/1998 | 5,999,390               | Input Buffer Circuit For Semiconductor Device  | 9567/0005      |
| 61920034AA | 09/178,734    | 10/27/1998 | 6,005,825               | Synchronous Semiconductor Memory Device Having Wave Pipelining Control Structure And Method For Outputting Data Using The Same         | 9551/0457      |
| 61920035AA | 09/178,733    | 10/27/1998 | ABANDONED<br>PER CLIENT | Sputterings Method Using Ionized Material For Forming A Layer  | 9546/0759      |
| 61920036AA | 09/138,655    | 08/24/1998 | 6,054,391               | Method For Etching A Platinum Layer In A Semiconductor Device  | 9422/0234      |
| 61920038AA | 09/301,327    | 04/29/1999 | 6,056,544               | Apparatus For Baking Resists On Semiconductor Wafers   | 9937/0403      |
| 61920039AA | 09/295,602    | 04/22/1999 | 6,194,931               | Circuit For Generating Backbias Voltage Corresponding To Frequency And Method Thereof For Use In Semiconductor Memory Device           | 9918/0887      |
| 61920040AA | 09/305,362    | 05/05/1999 | 6,115,317               | Semiconductor Memory Device For Masking Data By Controlling Column Select Line Signals   | 009957/0797    |
| 61920043AA | 09/172,135    | 10/14/1998 |                         | Method of crystallizing silicon film and method of manufacturing thin film transistor liquid crystal display (tft-lcd) using the same  | 9527/0526      |
| 61920044AA | 09/160,186    | 09/25/1998 | 5,936,687               | Liquid Crystal Display Having An Electrostatic Discharge Protection Circuit And A Method For Testing Display Quality Using The Circuit | 9627/0729      |

| Docket No. | Serial Number | Date Filed | Patent Number           | Title  | Reel/Frame No. |
|------------|---------------|------------|-------------------------|--|----------------|
| 61920045AA | 09/160,377    | 09/25/1998 | 6,177,970               | In-Plane Switching Mode Liquid Crystal Display And A Method Manufacturing The Same                           | 9651/0836      |
| 61920046AA | 09/198,615    | 11/24/1998 | ABANDONED<br>PER CLIENT | Liquid Crystal Display With Improved Metal Shell Type Connector Assembly                                     | 9626/0386      |
| 61920047AA | 09/170,100    | 10/13/1998 | 6,130,443               | Liquid Crystal Display Having Wires Made of Molybdenum-Tungsten Alloy And A Method of Manufacturing The Same | 9653/0872      |
| 61920048AA | 09/172,130    | 10/14/1998 |                         | Liquid crystal displays and manufacturing methods thereof  | 9697/0178      |
| 61920049AA | 09/174,429    | 10/19/1998 |                         | Liquid crystal displays and manufacturing methods thereof  | 9726/0857      |
| 61920050AA | 09/184,953    | 11/03/1998 |                         | Liquid crystal display having a modified electrode array   | 9566/0863      |
| 61920051AA | 09/187,019    | 11/06/1998 | 6,141,092               | Method and Apparatus For Measuring A Flicker Level   | 9739/0206      |
| 61920052AA | 09/196,185    | 11/20/1998 |                         | Wires for liquid crystal displays, liquid crystal displays having the same, and manufacturing method thereof | 9612/0321      |
| 61920053AA | 09/227,257    | 01/08/1999 | 6,071,868               | Photoresist Stripping Composition  | 9695/0507      |
| 61920054AA | 09/201,837    | 12/01/1998 | 6,146,796               | Liquid Crystal Display And A Manufacturing Method Thereof  | 9649/0667      |
| 61920055AA | 09/204,369    | 12/04/1998 | 6,300,987               | Thin Film Transistor Array Panels For Liquid Crystal Displays  | 9710/0571      |
| 61920056AA | 09/206,317    | 12/07/1998 |                         | Liquid crystal displays, manufacturing methods and testing methods thereof                                   | 9651/0293      |
| 61920057AA | 09/223,274    | 12/30/1998 | Abandoned<br>Per Client | Liquid crystal display having high contrast ratio  | 9704/0850      |
| 61920058AA | 09/221,174    | 12/28/1998 |                         | Liquid Crystal Display Having A Dual Bank Data Structure And A Driving Method Thereof                        | 9695/0330      |
| 61920059AA | 09/222,783    | 12/30/1998 | 6,317,173               | Liquid Crystal Displays, Manufacturing Methods And A Driving Method Thereof                                  | 9835/0487      |
| 61920059BA | 09/956,145    | 09/20/2001 |                         | Liquid crystal displays, manufacturing methods and a driving method thereof                                  | 9835/0487      |

| Docket No. | Serial Number | Date Filed | Patent Number | Title  | Reel/Frame No. |
|------------|---------------|------------|---------------|--|----------------|
| 61920060AA | 09/223,275    | 12/30/1998 |               | Liquid crystal displays and manufacturing methods thereof                          | 9704/0826      |
| 61920061AA | 09/263,782    | 03/05/1999 |               | Power supply apparatus of an LCD and voltage sequence control method               | 9825/0337      |
| 61920062AA | 09/231,670    | 01/15/1999 | 6,130,568     | Threshold Voltage Compensation Circuit   | 9852/0005      |
| 61920063AA | 09/288,035    | 04/08/1999 | 6,148,728     | Method For Cleaning A Printing Plate And Apparatus For Cleaning The Printing Plate | 9900/0123      |
| 61920064AA | 09/231,091    | 01/14/1999 |               | Laser cutting apparatus and device   | 9732/0181      |
| 61920065AA | 09/231,109    | 01/14/1999 | 6,297,869     | Method For Cutting A Liquid Crystal Display Panel (As Amended)                     | 9733/0636      |
| 61920065BA | 09/920,799    | 08/03/2001 |               | Liquid crystal display panel and a substrate thereof                               | 9733/0636      |
| 61920067AA | 09/245,123    | 01/14/1999 | 6,295,105     | Enhanced Backlight Assembly For A Liquid Crystal Display (As Amended)              | 9758/0250      |
| 61920068AA | 09/300,483    | 04/28/1999 |               | Liquid crystal display module and holding assemblies applied to the same           | 9943/0633      |
| 61920069AA | 09/234,293    | 01/21/1999 |               | Apparatus For Removing A Polarizer Of A Liquid Crystal Display                     | 9724/0902      |
| 61920070AA | 09/312,835    | 05/17/1999 |               | Liquid crystal display having dual shift clock wire                                | 9986/0480      |
| 61920071AA | 09/251,942    | 02/18/1999 |               | Displays having processors for image data  | 9854/0881      |
| 61920072AA | 09/401,963    | 09/22/1999 |               | Liquid crystal display device and a method for manufacturing a grounding device    | 010270/0335    |
| 61920073AA | 09/510,197    | 02/22/2000 |               | Driving system of an LCD device and LCD panel driving method                       | 010591/0252    |
| 61920074AA | 09/299,739    | 04/27/1999 |               | A Manufacturing Process Automation System Using A File Server And Its Control      | 009934/0297    |
| 61920075AA | 09/266,897    | 03/12/1999 |               | A liquid crystal display and a method of manufacturing the same                    | 9830/0855      |

| <b>Docket No.</b> | <b>Serial Number</b> | <b>Date Filed</b> | <b>Patent Number</b> | <b>Title</b>  | <b>Reel/Frame No</b>    |
|-------------------|----------------------|-------------------|----------------------|---|-------------------------|
| 61920076AA        | 09/328,393           | 06/09/1999        |                      | Cutting And Sorting Automation System And Method For Controlling The Same   | See attached Assignment |
| 61920077AA        | 09/330,206           | 06/11/1999        | 6,211,127            | Photoresist Stripping Composition   | 010041/0070             |
| 61920079AA        | 09/533,379           | 03/22/2000        |                      | Thin film transistor panels for liquid crystal displays   | 010644/0728             |
| 61920081AA        | 09/164,392           | 09/30/1998        |                      | Liquid crystal display and a method for driving   | 9632/0572               |
| 61920082AA        | 09/200,577           | 11/27/1998        | 6,266,120            | Dummy Pad, A Printed Circuit Board Including The Same, And A Liquid Crystal Display Including The Same                      | 9714/0635               |
| 61920083AA        | 09/337,735           | 06/22/1999        |                      | Variable Time Etching System According To The Number Of Devices Being Processed And A Method For Etching In The Same Manner | 010063/0036             |
| 61920084AA        | 09/459,924           | 12/14/1999        |                      | Liquid crystal display thin film transistor driving circuit   | 010463/0745             |
| 61920085AA        | 09/311,718           | 05/14/1999        |                      | Liquid crystal displays having multi-domains and a manufacturing method thereof   | 010142/0012             |
| 61920086AA        | 09/323,030           | 06/01/1999        | 6,225,150            | Method For Forming TFT In Liquid Crystal Display  | 010020/0128             |
| 61920086BA        | 09/793,541           | 02/27/2001        |                      | Method for forming TFT in liquid crystal display  | 010020/0128             |
| 61920087AA        | 09/314,293           | 05/19/1999        |                      | Liquid crystal display having a wide viewing angle  | 010143/0524             |
| 61920087CA        |                      | 12/18/2001        |                      | Liquid crystal display having a wide viewing angle  | 0101431/0524            |
| 61920088AA        | 09/315,105           | 05/20/1999        |                      | Liquid crystal display having wide viewing angle  | 010143/0470             |
| 61920089AA        | 09/389,474           | 09/03/1999        |                      | Driving Device And A Driving Method For A Display Device  | 010396/0896             |
| 61920089BA        | 09/967,926           | 10/02/2001        |                      | Driving Device and a Driving Method for a Display Device  | 010396/0896             |
| 61920090AA        | 09/410,760           | 10/01/1999        |                      | Thin film transistor array panel for a liquid crystal display and a method of manufacturing the same                        | 010322/0887             |

| Docket No. | Serial Number | Date Filed | Patent Number | Title   | Reel/Frame No. |
|------------|---------------|------------|---------------|---|----------------|
| 61920091AA | 09/417,045    | 10/12/1999 |               | Method for manufacturing a thin film transistor array panel for a liquid crystal display and a photolithography method for fabricating thin films | 010524/0415    |
| 61920091BA | 09/968,522    | 10/02/2001 |               | Method for manufacturing a thin film transistor array for a liquid crystal display and a photolithography method for fabricating thin films       | 010524/0415    |
| 61920092AA | 09/418,476    | 10/15/1999 |               | Thin film transistor array panel for a liquid crystal display and methods for manufacturing the same  | 010328/0710    |
| 61920093AA | 09/357,884    | 07/21/1999 |               | Liquid crystal display module using a flexible printed circuit  | 010127/0949    |
| 61920094AA | 09/405,178    | 09/24/1999 | 6,207,480     | Method of manufacturing a thin film transistor array for a liquid crystal display   | 011507/0661    |
| 61920094BA | 09/781,987    | 02/14/2001 |               | Apparatus For Manufacturing A Thin Film Transistor Array Panel For A Liquid Crystal Display   | 011507/0661    |
| 61920095AA | 09/391,661    | 09/07/1999 | 6,255,130     | Thin Film Transistor Array Panel And A Method For Manufacturing The Same  | 010396/0813    |
| 61920096AA | 09/415,456    | 10/14/1999 |               | Liquid crystal display having an electrostatic circuit  | 010487/0768    |
| 61920097AA | 09/377,075    | 08/19/1999 |               | Integrated system for detecting and repairing semiconductor defects and a method for controlling the same   | 010195/0420    |
| 61920098AA | 09/395,954    | 09/14/1999 |               | A system for selectively managing workpieces and a method for controlling the same  | 010259/0075    |
| 61920099AA | 09/382,820    | 08/25/1999 |               | Liquid crystal display module and an assembly method thereof  | 010204/0102    |
| 61920100AA | 09/512,267    | 02/24/2000 |               | Liquid crystal display and a method for driving the same  | 010925/0973    |
| 61920101AA | 09/433,930    | 10/26/1999 |               | Liquid crystal display having different common voltage  | 010374/0291    |
| 61920102AA | 09/480,689    | 01/11/2000 |               | System and method for moving substrates in and out of a manufacturing process   | 010515/0301    |

| Docket No. | Serial Number | Date Filed | Patent Number | Title   | Reel/Frame No.          |
|------------|---------------|------------|---------------|---|-------------------------|
| 61920103AA | 09/460,724    | 12/14/1999 |               | Apparatus and method for unloading substrates   | 010462/0553             |
| 61920104AA | 09/410,761    | 10/01/1999 | 6,190,224     | Automation System And A Method For Assembling A WorkPiece   | 010320/0020             |
| 61920106AA | 09/425,050    | 10/22/1999 | 6,256,077     | Thin Film Transistor Array Panel For A Liquid Crystal Display And A Method For Manufacturing The Same Using Four Photolithography Steps | 010346/0690             |
| 61920107AA | 09/417,076    | 10/13/1999 |               | Patterned vertically aligned liquid display   | 010339/0667             |
| 61920108AA | 09/421,478    | 10/20/1999 |               | Thin film transistor array panel for a liquid crystal display and a method for manufacturing the same                                   | 010341/0176             |
| 61920109AA | 09/438,579    | 11/12/1999 |               | Thin film transistor array panel for a liquid crystal display and a method for manufacturing the same                                   | 010398/0990             |
| 61920110AA | 09/414,818    | 10/08/1999 | 6,288,343     | Printed Circuit Board   | 010323/0082             |
| 61920111AA | 09/421,477    | 10/20/1999 | 6,265,290     | Method For Fabricating A Thin Film Transistor And A Substrate And Thin Film Transistor Manufactured Using The Same                      | 010341/0206             |
| 61920112AA | 09/435,356    | 11/08/1999 |               | Liquid crystal display and a method for fabricating the same  | 010386/0779             |
| 61920112BA | 09/966,090    | 10/01/2001 |               | Method for fabricating a reflection type liquid crystal display (as amended)  | 010386/0779             |
| 61920113AA | 09/435,357    | 11/08/1999 |               | Flat Panel Display System And Image Signal Interface Method Thereof   | 010386/0765             |
| 61920114AA | 09/431,157    | 11/01/1999 |               | Liquid crystal display having wide viewing angle  | See attached Assignment |
| 61920114PA | 09/727,782    | 12/04/2000 |               | Liquid crystal display having wide viewing angle  | 011586/0060             |
| 61920115AA | 09/503,157    | 02/11/2000 |               | System and method for controlling an in-line apparatus  | 010560/0078             |
| 61920116AA | 09/556,779    | 04/25/2000 |               | Liquid crystal display  | 010749/0571             |
| 61920117AA | 09/450,377    | 11/29/1999 |               | The tape carrier package and an LCD module using the same   | 010427/0379             |

| Docket No. | Serial Number | Date Filed | Patent Number | Title  | Reel/Frame No.          |
|------------|---------------|------------|---------------|--|-------------------------|
| 61920118AA | 09/450,333    | 11/29/1999 |               | Thin film transistor array panel for liquid crystal display and methods for manufacturing the same                               | 010737/0649             |
| 61920119AA | 09/472,246    | 12/27/1999 | 6,300,152     | Method For Manufacturing A Panel For A Liquid Crystal Display  | 010492/0797             |
| 61920120AA | 09/474,070    | 12/29/1999 | 6,287,899     | Thin Film Transistor Array Panels For A Liquid Crystal Display And A Method For Manufacturing The Same                           | 010491/0400             |
| 61920120BA | 09/910,808    | 07/24/2001 |               | Thin film transistor array panels for a liquid crystal display and a method for manufacturing the same                           | 010491/0400             |
| 61920121AA | 09/475,794    | 12/30/1999 |               | Alignment layer printing device  | See attached Assignment |
| 61920122AA | 09/527,807    | 03/17/2000 |               | Liquid crystal displays, a method for manufacturing the same, and a mask for optical treatment of an alignment layer of the same | 010637/0693             |
| 61920124AA | 09/521,179    | 03/08/2000 |               | Thin film transistor array panels for liquid crystal display having a wide viewing angle and a method for manufacturing the same | 010632/0903             |
| 61920125AA | 09/585,430    | 06/02/2000 |               | Multisync display device and driver  | 010840/0066             |
| 61920127AA | 09/551,404    | 04/17/2000 |               | Tape Carrier Package And A Liquid Crystal Display Panel Having The Same  | 010733/0141             |
| 61920127PA | 09/612,296    | 07/07/2000 |               | Signal transmission film and a liquid crystal display panel having the same  | 011269/0777             |
| 61920128AA | 09/527,803    | 03/17/2000 |               | Thin film transistor array for liquid crystal display and method for repairing the same  | 011963/0961             |
| 61920129AA | 09/556,299    | 04/24/2000 |               | Method for recycling alignment layer materials   | 011057/0600             |
| 61920130AA | 09/519,997    | 03/06/2000 |               | Reflection Type Liquid Crystal Display And A Method For Fabricating The Same   | 010929/0551             |
| 61920131AA | 09/545,891    | 04/07/2000 |               | Thin film transistor array panels for a liquid crystal display and a method for manufacturing the same                           | 011045/0440             |

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|------------|---------------|------------|---------------|--|----------------|
| 61920132AA | 09/558,647    | 04/02/2000 |               | Thin film transistor array panel and methods for manufacturing the same  | 010751/0614    |
| 61920134AA | 09/559,483    | 04/27/2000 |               | Liquid crystal display   | 011099/0224    |
| 61920135AA | 09/571,008    | 05/15/2000 |               | Low temperature polycrystalline silicon type thin film transistor and a method of the thin film transistor fabrication | 011079/0737    |
| 61920136AA | 09/585,427    | 06/02/2000 |               | Thin film transistor array substrate for a liquid crystal display and a method for fabricating the same                | 010840/0056    |
| 61920137AA | 09/576,129    | 05/22/2000 |               | Liquid crystal display having improved retardation film  | 011079/0785    |
| 61920138AA | 09/651,114    | 08/30/2000 |               | Composition for positive type photoresist  | 011374/0523    |
| 61920139AA | 09/650,898    | 08/30/2000 |               | Composition for positive type photoresist  | 011373/0707    |
| 61920140AA | 09/654,927    | 09/05/2000 |               | Positive photoresist layer and a method for using the same   | 011384/0523    |
| 61920141AA | 09/615,794    | 07/13/2000 |               | Liquid crystal display   | 011363/0372    |
| 61920142AA | 09/651,258    | 08/30/2000 |               | Method for fabricating top gate polycrystalline silicon thin film transistor   | 011060/0055    |
| 61920143AA | 09/736,281    | 12/15/2000 |               | Module for determining the driving signal timing and a method for driving a liquid crystal display panel               | 011626/0618    |
| 61920146AA | 09/621,825    | 07/21/2000 |               | Liquid crystal display and an information processing apparatus having the same   | 011002/0115    |
| 61920147AA | 09/631,766    | 08/03/2000 |               | Liquid crystal display   | 011504/0964    |
| 61920148AA | 09/636,466    | 08/11/2000 |               | Thin film transistor array substrate for a liquid crystal display  | 011332/0504    |
| 61920149AA | 09/804,063    | 03/13/2001 |               | Driving apparatus of a flat panel display  | 012139/0208    |
| 61920150AA | 09/804,056    | 03/13/2001 |               | Photolithography system and a method of fabricating thin film transistor array substrate using the same                | 011901/0720    |

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| 61920152AA        | 09/697,153           | 10/27/2000        |                      | Vertical alignment mode liquid crystal display  | See attached assignment. |
| 61920153AA        | 09/948,639           | 09/10/2001        |                      | Signal transmission film, control signal part and liquid crystal display including the film   | See attached Assignment  |
| 61920154AA        | 09/676,812           | 10/02/2000        |                      | Liquid crystal display  | 011802/0705              |
| 61920155AA        | 09/755,193           | 01/08/2001        |                      | Contact structure of wiring and a method for manufacturing the same   | See attached Assignment  |
| 61920156AA        | 09/705,928           | 11/06/2000        |                      | Thin film transistor array panel for a liquid crystal display   | 011670/0979              |
| 61920157AA        | 09/837,374           | 04/19/2001        |                      | Contact structures of wirings and methods for manufacturing the same, and thin film transistor array panels including the same and methods for manufacturing the same | 011726/0087              |
| 61920158AA        | 09/751,840           | 01/02/2001        |                      | Contact structures of wirings and methods for manufacturing the same, and thin film transistor array panels including the same and method for manufacturing the same  | See attached assignment. |
| 61920159AA        | 09/676,813           | 10/02/2000        |                      | Thin Film Transistor Array Panel For A Liquid Crystal Display And Methods For Manufacturing The Same  | 011481/0995              |
| 61920160AA        | 09/940,429           | 08/29/2001        |                      | Control signal part and liquid crystal display including the control signal.  | 012136/0768              |
| 61920161AA        | 09/680,306           | 10/06/2000        |                      | Liquid crystal module, liquid crystal display device employing the same and assembly method thereof   | See attached assignment. |
| 61920162AA        |                      |                   |                      | Thinner for rinsing photoresist and method of treating photoresist layer  | File Closed Per Client   |
| 61920163AA        | 09/892,576           | 06/28/2001        |                      | Thin film transistor array substrate for liquid crystal display and method of fabricating the same  | 011946/0984              |
| 61920164AA        | 09/853,642           | 05/14/2001        |                      | Thin film transistor array substrate for liquid crystal display and method for fabricating the same   | 012155/0100              |
| 61920165AA        | 09/709,648           | 11/13/2000        |                      | Method of forming thin film transistor  | 011762/0876              |

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| 61920166AA        | 09/709,312           | 11/13/2000        |                      | Reflective transmission type thin film transistor liquid display   | 011765/0636                      |
| 61920167AA        | 09/901,127           | 07/10/2001        |                      | Liquid crystal display   | 011985/0906                      |
| 61920168AA        | 09/874,316           | 06/06/2001        |                      | Method for illuminating liquid crystal display device, a back-light assembly for performing the same, and a liquid crystal display device using the same | 011885/0659                      |
| 61920169AA        | 09/725,470           | 11/30/2000        |                      | Liquid crystal display device  | 011324/0318                      |
| 61920170AA        | 09/924,677           | 08/09/2001        |                      | Fluorescent lamp and liquid crystal display device having the same   | 012070/0454                      |
| 61920171AA        | 09/732,769           | 12/11/2000        |                      | Liquid crystal display device  | 011357/0064                      |
| 61920172AA        | 09/736,280           | 12/15/2000        |                      | Liquid crystal display module  | 011626/0602                      |
| 61920173AA        | 09/967,938           | 10/02/2001        |                      | Apparatus for injecting liquid crystal materials and methods for manufacturing liquid crystal panels by using the same                                   | See attached assignment.         |
| 61920174AA        | 09/886,128           | 06/22/2001        |                      | Liquid crystal display device having a flexible circuit board  | 011930/0410                      |
| 61920175AA        | 09/748,135           | 12/27/2000        |                      | Liquid crystal display   | 011718/0321                      |
| 61920176AA        |                      |                   |                      | Liquid crystal display and driving method thereof  | Application Not Filed Per Client |
| 61920177AA        | 09/887,117           | 06/25/2001        |                      | Liquid crystal display using swing common electrode and a method for driving the same  | 011938/0509                      |
| 61920178AA        | 09/852,647           | 05/11/2001        |                      | Thin film transistor array substrate for a liquid crystal display and method for fabricating the same  | 011800/0683                      |
| 61920179AA        | 09/804,052           | 03/13/2001        |                      | Liquid crystal display and a TFT panel applied thereto   | 011778/0468                      |
| 61920180AA        | 09/821,039           | 03/30/2001        |                      | Liquid crystal display   | 011665/0532                      |
| 61920181AA        | 09/832,914           | 04/12/2001        |                      | Backlight unit for liquid crystal display device   | 011719/0744                      |
| 61920182AA        | 09/837,375           | 04/19/2001        |                      | In-plane switching type liquid crystal display device and a method for manufacturing the same  | 011702/0059                      |

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| 61920183AA        | 09/773,603           | 02/02/2001        |                      | Liquid Crystal Display And Driving Method Thereof   | See attached Assignment                     |
| 61920184AA        | 09/882,043           | 06/18/2001        |                      | Liquid crystal display device and a method for assembling the same  | 011926/0908                                 |
| 61920185AA        |                      |                   |                      | Liquid crystal display device with a function of adaptive brightness and method of driving the same   | Application Not Filed, Per Client           |
| 61920186AA        | 09/964,639           | 09/28/2001        |                      | Control signal unit for a liquid crystal display and a method for fabricating the same  | 012212/0283                                 |
| 61920187AA        | 09/906,680           | 07/18/2001        |                      | Method for manufacturing a polysilicon type thin film transistor  | 012004/0107                                 |
| 61920188AA        | 09/924,761           | 08/09/2001        |                      | Reflection type liquid crystal display  | 012070/0482                                 |
| 61920189AA        | 09/970,992           | 10/05/2001        |                      | Liquid crystal display device   | 012239/0903                                 |
| 61920190AA        | 09/779,705           | 02/09/2001        |                      | Thin film transistor array substrate for liquid crystal display and method of fabricating the same  | 011866/0440                                 |
| 61920191AA        | 09/950,613           | 09/13/2001        |                      | Flat panel display device   | See attached assignment                     |
| 61920192AA        | 09/947,714           | 09/07/2001        |                      | Liquid crystal display using common electrode voltage and a drive method thereof  | 012159/0541                                 |
| 61920193AA        | 09/993,503           | 11/27/2001        |                      | Method for decreasing misalignment of a printed circuit board and a liquid crystal display device with the printed circuit board                      | See attached Assignment                     |
| 61920194AA        | 09/804,381           | 03/13/2001        |                      | Driving module for a liquid crystal display panel and a liquid crystal display device having the same   | 011604/0375                                 |
| 61920195AA        |                      |                   |                      | Polarizing plate gluing apparatus, polarizing palte reworking apparatus, and polarizing plate gluing method and plate reworking method using the same | Application Not Filed - Per Client - CLOSED |
| 61920196AA        | 09/978,040           | 10/17/2001        |                      | Method and apparatus for cutting a non-metal substrate by using a laser beam  | See attached assignment.                    |
| 61920197AA        | 09/912,500           | 07/26/2001        |                      | Flat panel display  | 0120288/0389                                |

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| 61920198AA        | 09/886,022           | 06/22/2001        |                      | Flat panel display with an enhanced data transmission   | 011930/0420               |
| 61920199AA        | 09/886,126           | 06/22/2001        |                      | Stack type package assembly, LCD having the same, and assembly method of stack type backlight assembly        | 011930/0405               |
| 61920200AA        | 09/886,028           | 06/22/2001        |                      | Flat panel display capable of digital data transmission   | See attached assignment.  |
| 61920201AA        | 09/953,308           | 09/17/2001        |                      | Liquid crystal display with multi-frame inverting function and an apparatus and a method for driving the same | 012171/0014               |
| 61920202AA        | 09/886,029           | 06/22/2001        |                      | Shift register and driving circuit of LCD using the same  | 011938/0656               |
| 61920203AA        | 09/935,158           | 08/23/01          |                      | Liquid Crystal Display And Substrate Thereof  | 012125/0558               |
| 61920204AA        | 09/970,994           | 10/05/2001        |                      | Liquid crystal display having wide viewing angle  | See attached assignment   |
| 61920205AA        | 09/934,590           | 08/23/2001        |                      | Low power LCD   | 012111/0412               |
| 61920206AA        | 09/942,863           | 08/31/2001        |                      | Abnormal operation prevention circuit for display device and method for operating the same                    | 012140/0546               |
| 61920207AA        | 09/928,350           | 08/14/2001        |                      | Flat panel display and drive method thereof   | 012079/0007               |
| 61920208AA        |                      |                   |                      | Backlight assembly and liquid crystal display having the same   | Application Not Filed Yet |
| 61920209AA        | 09/956,146           | 09/20/2001        |                      | Gray voltage generation circuit for driving a liquid crystal display rapidly                                  | See attached Assignment   |
| 61920210AA        | 09/917,910           | 07/31/2001        |                      | Real size display system  | 012040/0447               |
| 61920211AA        | 09/985,030           | 11/01/2001        |                      | Gate signal delay compensating LCD and driving method thereof   | See attached assignment.  |
| 61920212AA        | 09/995,766           | 11/29/2001        |                      | LCD panel, LCD including the same, and driving method thereof   | See attached assignment.  |
| 61920213AA        | 09/933,178           | 08/21/2001        |                      | Liquid crystal display device   | 012111/0273               |
| 61920214AA        | 09/887,111           | 06/25/2001        |                      | Liquid crystal display with wide viewing angle  | 011938/0523               |

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| 61920215AA        | 09/838,384                    | 04/20/2001        |                      | Liquid crystal display device having a container module with a novel structure                                  | 011719/0889               |
| 61920216AA        | 09/838,383                    | 04/20/2001        |                      | Liquid crystal display  | See attached Assignment   |
| 61920217AA        | Filed Application<br>01/16/02 |                   |                      | Backlight assembly and liquid crystal display device having the same  | See attached Assignment   |
| 61920218AA        | 09/940,457                    | 08/29/2001        |                      | Panel for liquid crystal display  | 012128/0353               |
| 61920219AA        | 09/838,385                    | 04/20/2001        |                      | In-line system and a methods for manufacturing liquid crystal display   | 011988/0300               |
| 61920220AA        | 09/988,169                    | 11/19/2001        |                      | Thin film transistor array substrate for liquid crystal display and method for fabricating the same             | See attached assignment   |
| 61920221AA        | 09/911,613                    | 07/25/2001        |                      | TFT LCD device having multi-layered pixel electrodes  | 012019/0234               |
| 61920222AA        | Application filed<br>01/28/02 |                   |                      | Liquid crystal display device and method for manufacturing the same   | See attached Assignment   |
| 61920223AA        | 09/970,785                    | 10/05/2001        |                      | Thin film transistor array substrate, method for manufacturing the same and system for inspecting the substrate | See attached assignment   |
| 61920224AA        | Application filed<br>01/09/02 |                   |                      | Substrate for liquid crystal display and method of fabricating the same   | See attached Assignment   |
| 61920225AA        | 09/886,006                    | 06/22/2001        |                      | Liquid crystal display device having a light guiding plate with a novel structure                               | 011930/0451               |
| 61920226AA        | 09/852,717                    | 05/11/2001        |                      | Liquid crystal display and substrate thereof  | 011801/0237               |
| 61920227AA        | 09/955,084                    | 09/19/2001        |                      | LCD device and a method for reducing flickers   | 012191/0665               |
| 61920228AA        |                               |                   |                      | Connector, backlight assembly lamp unit having the connector and liquid crystal display having the same         | Application Not Filed Yet |
| 61920229AA        | 09/848,618                    | 07/10/2001        |                      | Liquid crystal display device   | 011962/0633               |

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| 61920230AA        | 09/862,588           | 05/23/2001        |                      | Thin film transistor substrate for a liquid crystal display and a method for repairing the substrate    | 011847/0670               |
| 61920231AA        | 09/969,998           | 10/04/2001        |                      | Liquid crystal display and a method for fabricating the same  | See attached assignment   |
| 61920232AA        | 09/879,119           | 06/13/2001        |                      | Liquid crystal display with a wide viewing angle using a compensation film                              | 011899/0587               |
| 61920233AA        | 09/850,367           | 05/08/2001        |                      | Liquid crystal display device and method for assembling the same  | 012069/0511               |
| 61920234AA        |                      |                   |                      | Liquid crystal display adaptive to visual field angle   | Application Not Filed Yet |
| 61920235AA        |                      |                   |                      | LCD, and driving device and method thereof  | Application Not Filed Yet |
| 61920236AA        |                      |                   |                      | Shift register and liquid crystal display using the same  | Application Not Filed Yet |
| 61920237AA        | 09/879,112           | 06/13/2001        |                      | Vertically-aligned liquid crystal display with a small domain   | 011899/0453               |
| 61920238AA        | 09/859,801           | 05/18/2001        |                      | Backlight assembly and liquid crystal display device using thereof                                      | 012175/0742               |
| 61920239AA        | 09/901,128           | 07/10/2001        |                      | Vertically aligned liquid crystal display   | 011985/0901               |
| 61920240AA        | 09/953,200           | 09/17/2001        |                      | Light guide device, and liquid crystal display module and liquid crystal display device having the same | 012171/0881               |
| 61920241AA        |                      |                   |                      | Backlight assembly and liquid crystal display device having the same                                    | Application Not Filed Yet |
| 61920242PR        | 60/295,022           | 06/04/2001        |                      | Liquid crystal display with an adjusting function of a gamma curve                                      | See attached assignment   |
| 61920243PR        | 60/295,021           | 06/04/2001        |                      | Flat panel display  | See attached assignment   |
| 61920244AA        |                      |                   |                      | Liquid crystal display and method for manufacturing the same  | Application Not Filed Yet |

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| 61920245AA        |                               |                   |                      | Method for controlling electron stream within lamp of cold cathode fluorescent tube, method for driving cold cathode fluorescent tube type illumination device using the same, cold cathode fluorescent tube type illumination device and LCD having the same | Application Not Filed Yet              |
| 61920246AA        |                               |                   |                      | Illuminating method of removal moire phenomenon in reflective type liquid crystal display assembly and light supply unit and method for fabricating light distribution alteration unit thereof  | Application Not Filed Yet              |
| 61920247AA        | 09/912,523                    | 07/26/2001        |                      | Liquid crystal display and drive method thereof   | 012028/0157                            |
| 61920248AA        | 09/912,522                    | 07/26/2001        |                      | System and method for analyzing and utilizing intellectual property information   | 012028/0947                            |
| 61920249AA        | Filed Application<br>01/17/02 |                   |                      | LCD and driving method thereof  | See attached Assignment                |
| 61920250AA        |                               |                   |                      | LCD of impulse driving method and driving method thereof  | File Closed And Transferred Per Client |
| 61920251AA        |                               |                   |                      | Light source device, backlight assembly and liquid crystal display device having the same   | Application Not Filed Yet              |
| 61920252AA        |                               |                   |                      | Liquid crystal display device   | Application Not Filed Yet              |
| 61920253AA        |                               |                   |                      | LCD with adaptive luminance intensifying function and driving method thereof  | Application Not Filed Yet              |
| 61920254AA        | 09/901,137                    | 07/10/2001        |                      | Liquid crystal display with a function of color correction, and apparatus and method for driving thereof  | See attached assignment                |
| 61920255AA        | 09/961,438                    | 09/25/2001        |                      | Apparatus and method for automatic brightness control for use in liquid crystal display devices   | 012209/0723                            |

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| 61920256AA        |                      |                   |                      | A wiring line assembly and method of manufacturing the same, and thin film transistor array substrate having the wiring line assembly and method of manufacturing fabricating same | Application Not Filed Yet |
| 61920257AA        | 09/964,645           | 09/28/2001        |                      | Thin film transistor array substrate   | 012212/0240               |
| 61920258AA        |                      |                   |                      | Polycrystalline silicon thin film transistor of liquid crystal display and manufacturing method thereof  | Application Not Filed Yet |
| 61920259AA        | 09/917,689           | 07/31/2001        |                      | Wiring line assembly for thin film transistor array substrate and a method for fabricating the same  | 012039/0865               |
| 61920260AA        | 09/911,084           | 07/24/2001        |                      | Liquid crystal display device  | 012259/0642               |
| 61920261AA        |                      |                   |                      | Method and Apparatus For Cutting A Non-Metallic Substrate Using A Laser Beam   | Application Not Filed Yet |
| 61920262AA        | 09/985,031           | 11/01/2001        |                      | Reflection type liquid crystal display and a method for manufacturing the same   | See attached Assignment   |
| 61920263AA        | 09/928,349           | 08/14/2001        |                      | Liquid crystal display and a method for fabricating the same   | See attached Assignment   |
| 61920264AA        |                      |                   |                      | Liquid crystal display   | Application Not Filed Yet |
| 61920265AA        |                      |                   |                      | Liquid crystal display device having a wire fixing member  | Application Not Filed Yet |
| 61920266AA        | 09/940,606           | 08/29/2001        |                      | Liquid crystal display reducing color coordinate shift   | 012136/0674               |
| 61920267AA        |                      |                   |                      | Thin film transistor for liquid crystal display and method of manufacturing the same   | Application Not Filed Yet |
| 61920268AA        | 09/955,218           | 09/19/2001        |                      | Liquid crystal display panel   | 012181/0627               |
| 61920269AA        |                      |                   |                      | Method and apparatus for cutting substrate into multiple pieces with once irradiation of laser beam  | Application Not Filed Yet |
| 61920270AA        | 09/969,717           | 10/04/2001        |                      | Liquid crystal display   | 012239/0489               |

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| 61920271AA        |                                   |                   |                      | Liquid crystal display and method of driving the same   | <b>Application Not Filed Yet</b> |
| 61920272AA        |                                   |                   |                      | Multi domain liquid crystal display   | <b>Application Not Filed Yet</b> |
| 61920273AA        | 09/977,684                        | 10/16/2001        |                      | Color filter plate and thin film transistor plate for liquid crystal display, and methods for fabricating the same  | <b>See attached assignment</b>   |
| 61920274AA        |                                   |                   |                      | Liquid crystal display device   | <b>Application Not Filed Yet</b> |
| 61920275AA        |                                   |                   |                      | Light guiding plate, method of manufacturing the same and liquid crystal display having the light guiding plate   | <b>Application Not Filed Yet</b> |
| 61920276AA        | 09/983,878                        | 10/26/2001        |                      | Liquid Crystal Display  | <b>See attached assignment</b>   |
| 61920277US        |                                   |                   |                      | Liquid crystal display device   | <b>Application Not Filed Yet</b> |
| 61920278AA        | <b>Filed Application 01/22/02</b> |                   |                      | Thin film transistor liquid crystal display   | <b>See attached Assignment</b>   |
| 61920279AA        | 09/986,707                        | 11/09/2001        |                      | LCD for speeding initial bend state, driver and method thereof  | <b>See attached Assignment</b>   |
| 61920280AA        |                                   |                   |                      | Methods for forming photosensitive insulating film pattern and reflection electrode each having irregular upper surface and method for manufacturing LCD having reflection electrode using the same | <b>Application Not Filed Yet</b> |

The assignee of the above-identified patent applications hereby appoints:

|                                     |                                  |
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as attorneys to prosecute these applications and transact all business in the Patent and Trademark Office connected therewith.

The undersigned hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

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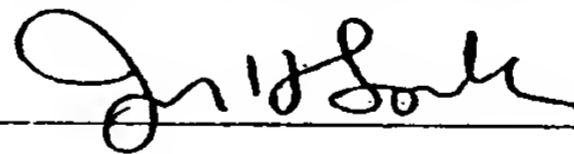
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TITLE:

Sr. VP

DATE:

Feb 1 '02